

FORM PTO-1449

INFORMATION DISCLOSURE CITATION

Atty Docket
LU 6079 (US)

Serial No.
10/539,342

Applicant
Shahram Mihan et al.

Filing Date
June 16, 2005

Group Art Unit
1713

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Issue Date	Name	Class	Sub-Class	Filing Date
<i>M</i>	AA	3,125,547	03/17/64	Blatz	260	45.5	
	AB	3,242,150	03/22/66	Scoggin			
	AC	3,248,179	04/26/66	Norwood			
<i>R</i>	AD	5,246,783	09/21/93	Spenadel et al.	428	461	
<i>R</i>	AE	5,281,679	01/25/94	Jejelowo et al.	526	114	
<i>R</i>	AF	5,625,016	04/29/97	Schiffino et al.	526	114	
	AG	6,240,507	05/29/01	Derrick et al.			
<i>M</i>	AH	6,350,814	02/26/02	Bauer et al.	525	191	
<i>M</i>	AI	6,420,507	07/16/02	Kale et al.	526	348	
	AJ	6,588,905	07/08/03	Sekine			
<i>R</i>	AK	6,642,313	11/04/03	Kazakov et al.	525	191	
<i>R</i>	AL	6,699,948	03/02/04	Mihan et al.	526	161	
<i>M</i>	AM	6,723,675	04/20/04	Wang	502	103	
	AN	6,737,130	05/18/04	Ferri	428	35.2	
<i>R</i>	AO	6,787,498	09/07/04	Mihan et al.	502	120	
<i>R</i>	AP	6,812,185	11/02/04	Fischer et al.	502	120	
<i>R</i>	AQ	6,838,563	01/04/05	Mihan et al.	546	10	
<i>R</i>	AR	6,911,516	06/28/05	Mihan et al.	526	348	
<i>R</i>	AS	6,919,412	07/19/05	Mihan et al.	526	127	
<i>R</i>	AT	6,924,248	08/02/05	Mihan et al.	502	132	
<i>R</i>	AU	7,094,724	08/22/06	Fraaije et al.	502	150	
<i>R</i>	AV	2003/0036658 (corresponds to US 6,699,948; US 6,919,412)	02/20/03	Mihan et al.			
<i>R</i>	AW	2003/0036662 (corresponds to US 6,787,498; US 6,919,412)	02/20/03	Mihan et al.			
<i>R</i>	AX	2003/0055267 (corresponds to US 6,838,563; US 6,919,412)	03/20/03	Mihan et al.			
<i>R</i>	AY	2003/0176275 (corresponds to US 7,094,724)	09/18/03	Fraaije et al.			
<i>R</i>	AZ	2003/0236164 (corresponds to US 6,812,185; US 6,588,905)	12/25/03	Fischer et al.			

Examiner

Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP § 609.
Draw line through citation if not in conformance and not considered.
Include copy of this form with next communication to Applicant.

January 02, 2008

FORM PTO-1449 INFORMATION DISCLOSURE CITATION				Atty Docket LU 6079 (US)		Serial No. 10/539,342	
				Applicant Shahram Mihan et al.			
				Filing Date June 16, 2005		Group Art Unit 1713	
U.S. PATENT DOCUMENTS							
Examiner Initial	BA	Document Number 2004/0033890 (corresponds to US 6,924,248)	Issue Date 02/19/04	Name Mihan et al.	Class	Sub-Class	Filing Date
	BB	2005/0282979	12/22/05	Mihan et al.			
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Sub-Class	Translation
	BC	19745047 (corresponds to US 6,350,814)	04/15/99	DE			
	BD	100,843	02/22/84	EP			
	BE	416,815	03/13/91	EP			
	BF	420,436	04/03/91	EP			
	BG	608,369	08/03/94	EP			
	BH	662,989	07/19/95	EP			
	BI	728,160	08/28/96	EP			
	BJ	899,278	03/03/99	EP			
	BK	90/03414	04/05/90	WO			
	BL	91/09882	07/11/91	WO			
	BM	93/03093	02/18/93	WO			
	BN	93/12151	06/24/93	WO			
	BO	95/27005	10/12/95	WO			
	BP	98/03559	01/29/98	WO			
	BQ	98/44011	10/08/98	WO			
	BR	01/12687 (corresponds to US 6,911,516)	02/22/01	WO			
	BS	01/96417 (corresponds to US 6,924,248; US 2004/0033890)	12/20/01	WO			
	BT	2004/056481	07/08/04	WO			
	BU	2004/056878	07/08/04	WO			
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	BV	S. Arndt, "Alkyl Complexes of Rare-Earth Metals That Contain a Furyl-Functionalized Cyclopentadienyl Ligand: Alkyl Cation Formation and Unexpected Ring-Opening Reaction of the Furyl Group." <i>Organometallics</i> , Vol. 22, p. 775-781 (2003)					
Examiner				Date Considered			
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.				January 02, 2008			

FORM PTO-1449

INFORMATION DISCLOSURE CITATION

Atty Docket
LU 6079 (US)Serial No.
10/539,342

Applicant

Shahram Mihan et al.

Filing Date

June 16, 2005

Group Art Unit

1713

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CA	S. Pang et al., "Size-Exclusion Chromatographic Assessment of Long-Chain Branch Frequency in Polyethylenes," <u>Chromatography of Polymers</u> , ACS Symposium Series 521, edited by Theodore Provder, p. 254-269 (1993)
CB	L. Wild, "Temperature Rising Elution Fractionation," <u>Advances in Polymer Science</u> 98, p. 1-47 (1999)
CC	B. Monrabal, "Crystallization Analysis Fractionation: A New Technique for the Analysis of Branching Distribution in Polyolefins," <u>J. of Applied Polymer Science</u> , Vol. 52, p. 491-499 (1994)
CD	M. Enders et al., "New Chromium (III) Complexes as Highly Active Catalysts for Olefin Polymerization," <u>Organometallics</u> , Vol. 20(24), p. 5005-5007 (2001) XP-001112032
CE	S. Bradley et al., "Synthesis and Structure of Amino-Functionalized Cyclopentadienyl Vanadium Complexes and Evaluation of Their Butadiene Polymerization Behavior," <u>Organometallics</u> , Vol. 21(16), p. 3443-3453 (2002)
CF	G. Kraus et al., "A Method for Characterization of Long-Chain Branched Polymers by GPC and Intrinsic Viscosity," <u>J. Polymer Sci.: Symposium No. 43</u> , p. 329-343 (1973)
CG	M. Pollard et al., "Observation of Chain Branching in Polyethylene in the Solid State and Melt via ¹³ C NMR Spectroscopy and Melt NMR Relaxation Time Measurements," <u>Macromolecules</u> , Vol. 37(3), p. 813,825 (2004)
CH	R. Koopmans, "Extrudate Swell of High Density Polyethylene. Part I: Aspects of Molecular Structure and Rheological Characterization Methods," <u>Polymer Engineering and Science</u> , Vol. 32(23), p. 1741-1749 (1992)
CI	J. Vega et al., "Small-Amplitude Oscillatory Shear Flow Measurements as a Tool To Detect Very Low Amounts of Long Chain Branching in Polyethylenes," <u>Macromolecules</u> , Vol. 31(11), p. 3639-3647 (1998)
CJ	P. Wood-Adams et al., "Effect of Molecular Structure on the Linear Viscoelastic Behavior of Polyethylene," <u>Macromolecules</u> , Vol. 33(20), p. 7489-7499 (2000)
CK	C. Piel et al., "Structure-Property Relationships of Linear and Long-Chain Branched Metallocene High-Density Polyethylenes Characterized by Shear Rheology and SEC-MALLS," <u>Macromolecular Chemistry and Physics</u> , Vol. 207, p. 26-38 (2006)
CL	W. Kaminsky et al., "Polymerization of Ethene and Longer Chained Olefins by Metallocene Catalysis," <u>Macromol. Symp.</u> , Vol. 226, p. 25-34 (2005)
CM	K. Klimke et al., "Optimisation and Application of Polyolefin Branch Quantification by Melt-State ¹³ C NMR Spectroscopy," <u>Macromol. Chem. Phys.</u> , Vol. 207, p. 382-395 (2006)
CN	S. Bin Wadud et al., "Shear and extensional rheology of sparsely branched metallocene-catalyzed polyethylenes," <u>J. Rheol.</u> , Vol. 44(5), p. 1151-1167 (2000)
CO	D. Yan et al., "Effect of long chain branching on rheological properties of metallocene polyethylene," <u>Polymer</u> , Vol. 40, p. 1737-1744 (1999)

Examiner

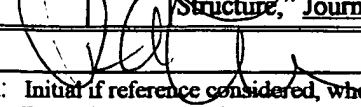
Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP § 609.

Draw line through citation if not in conformance and not considered.

Include copy of this form with next communication to Applicant.

January 02, 2008

FORM PTO-1449 INFORMATION DISCLOSURE CITATION		Atty Docket LU 6079 (US)	Serial No. 10/539,342
		Applicant Shahram Mihan et al.	
		Filing Date June 16, 2005	Group Art Unit 1713
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
R	DA		F. Stadler et al., "Influence of type and content of very long comonomers on long-chain branching of ethene-/α-olefin copolymers," <u>Macromolecules</u> , Vol. 39(4), p. 1474-1500 (2006)
R	DB		J. Janzen et al., "Diagnosing long-chain branching in polyethylenes," <u>Journal of Molecular Structure</u> , Vol. 485-486, p. 569-584 (1999)
R	DC		C. Gabriel et al., "Analytical and rheological characterization of long-chain branched metallocene-catalyzed ethylene homopolymers," <u>Polymer</u> , Vol. 43, p. 6383-6390 (2002)
R	DD		B. Zimm et al., "The Dimension of Chain Molecules Containing Branches and Rings," <u>The Journal of Chemical Physics</u> , Vol. 17(12), p. 1301-1314 (1949)
R	DE		H. Barth et al., <u>Modern Methods of Polymer Characterization</u> , Chemical Analysis, Vol. 113, New York: Wiley (1991); Table of Contents
R	DF		Hadjichristidis et al., "Well-Defined, Model Long Chain Branched Polyethylene. 1. Synthesis and Characterization," <u>Macromolecules</u> , Vol. 33(7), p. 2424-2436 (2000)
R	DG		E. Kokko et al., "Long-Chain Branched Polyethylene via Metallocene-Catalysis: Comparison of Catalysts," Contribution in <u>Organometallic Catalysts and Olefin Polymerization</u> by R. Blom et al., p. 335-345 (2001)
R	DH		J. Stange et al., "Rheological behavior of blends from a linear and a long-chain branched polypropylene," <u>J. Rheol.</u> , Vol. 49(5), p. 1059-1079 (2005)
R	DI		H. Münstedt et al., "Rheological measuring techniques and their relevance for the molecular characterization of polymers," <u>J. Non-Newtonian Fluid Mech.</u> , Vol. 128, p. 1-8 (2005)
R	DJ		T. McLeish et al., "Molecular constitutive equations for a class of branched polymer: The pom-pom polymer," <u>J. Rheol.</u> , Vol. 42(1), p. 81-110 (1998)
R	DK		I. Vittorias et al., "Detection and quantification of industrial polyethylene branching topologies via Fourier-transform rheology, NMR and simulation using the Pom-pom model," <u>Rheol. Acta</u> , Vol. 46, p. 321-340 (2007)
R	DL		E. van Ruymbeke et al., "A sensitive method to detect very low levels of long chain branching from the molar mass distribution and linear viscoelastic response," <u>J. Rheol.</u> , Vol. 49(6), p. 1-18 (2005)
R	DM		S. Trinkle et al., "Van Gorp-Palmen Plot II-classification of long chain branched polymers by their topology," <u>Rheol Acta</u> , Vol. 41, p. 103-113 (2002)
R	DN		D. Lohse et al., "Well-Defined, Model Long Chain Branched Polyethylene. 2. Melt Rheological Behavior," <u>Macromolecules</u> , Vol. 35(8), p. 3066-3075 (2002)
R	DO		C. Gabriel et al., "Influence of long-chain branches in polyethylenes on linear viscoelastic flow properties in shear," <u>Rheol Acta</u> , Vol. 41, p. 232-244 (2002)
R	DP		B. Bersted et al., "Prediction of Rheological Behavior of Branched Polyethylene from Molecular Structure," <u>Journal of Applied Polymer Science</u> , Vol. 26, p. 1001-1014 (1981)
Examiner 		Date Considered May 02, 2008	
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.			

FORM PTO-1449

INFORMATION DISCLOSURE CITATION

Atty Docket
LU 6079 (US)Serial No.
10/539,342

Applicant

Shahram Mihan et al.

Filing Date

June 16, 2005

Group Art Unit

1713

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

EA	B. Bersted, "On the Effects of Very Low Levels of Long Chain Branching on Rheological Behavior in Polyethylene," <u>J. of Applied Polymer Science</u> , Vol. 30, p. 3751-3765 (1985)
EB	H. Park et al., "Influence of long-chain branching on time-pressure and time-temperature shift factors for polystyrene and polyethylene," <u>Rheol Acta</u> , Vol. 46, p. 153-159 (2006)
EC	C. Gabriel et al., "Influence of molecular structure on rheological properties of polyethylenes," <u>Rheol Acta</u> , Vol. 37, p. 7-20 (1998)
ED	G. Schlatter et al., "Fourier Transform Rheology of Branched Polyethylene: Experiments and Models for Assessing the Macromolecular Architecture," <u>Macromolecules</u> , Vol. 38, p. 6492-6544 (2005)
EE	H. Münstedt et al., "Influence of molecular structure on rheological properties of polyethylenes, Part II. Elongational behavior," <u>Rheol Acta</u> , Vol. 37, p. 21-29 (1998)
EF	I. Vittorias et al., "Detection of Long-Chain Branching in Polyolefins via Fourier-Transform Rheology and Finite Element Simulations," <u>Macromol. Mat. Eng.</u> , p. 115-120 (2007)
EG	G. Georgiou, "Stick-Slip Instability," <u>Polymer Processing Instabilities</u> edited by S. Hatzikiriakos & S. Migler, Dekker, NY, p. 161-206 (2005)
EH	S. Wang et al., "Exploring molecular origins of sharkskin, partial slip, and slope change in flow curves of linear low density polyethylene," <u>J. Rheol.</u> , Vol. 40(5), p. 875-898 (1996)
EI	S. Wang et al., "Stick-slip transition in capillary flow of linear polyethylene: 3. Surface conditions," <u>Rheol Acta</u> , Vol. 36, p. 128-134 (1997)
EJ	Office Action from currently pending Application Serial No. 10/538,540 with mail date 4/6/06
EK	Response and Amendment from currently pending Application Serial No. 10/538,540 with mail date 10/6/06
EL	Office Action from currently pending Application Serial No. 10/538,540 with mail date 1/19/07
EM	Response and Amendment from currently pending Application Serial No. 10/538,540 with mail date 7/19/07
EN	Office Action from currently pending Application Serial No. 10/539,242 with mail date 7/3/07

Examiner

Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP § 609.

Draw line through citation if not in conformance and not considered.

Include copy of this form with next communication to Applicant.

January 02, 2008